NiKA



2026-07 v3

Autonomous ASW for Persistent Undersea Threat Detection

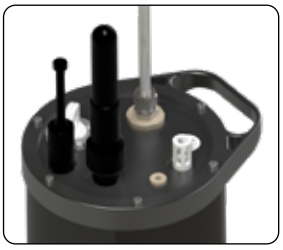
NiKA is a next-generation autonomous platform purpose-built for persistent maritime monitoring and undersea threat detection. Outfitted with a custom-engineered hydrophone array, NiKA performs high-precision acoustic data collection by either cycling through the water column in Classic Mode or holding a fixed depth in Stealth Mode, gathering key intelligence before surfacing to transmit its findings.

Leveraging the Iridium Certus® 100 mid-band satellite service, NiKA delivers real-time positional and acoustic data to command networks anywhere in the world with unmatched reliability. Capable of operating at depths of up to 1000 meters and remaining deployed for over a year, NiKA enhances existing undersea surveillance frameworks by complementing fixed sensors, towed arrays, and sonobuoys.

Designed for modern naval operations, NiKA provides cost-effective, unmanned acoustic coverage with mission-critical command and control functionality. It is an essential asset for forces requiring reliable, long-duration awareness of subsurface activity.



- Long-Endurance Acoustic Sensing for Subsurface Threats
- Real-Time Submarine Localization via Satellite Uplink
- Deep-Water Profiling for Critical Naval Intelligence



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REPMUS 2025

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NiKA TECHNICAL SPECIFICATIONS

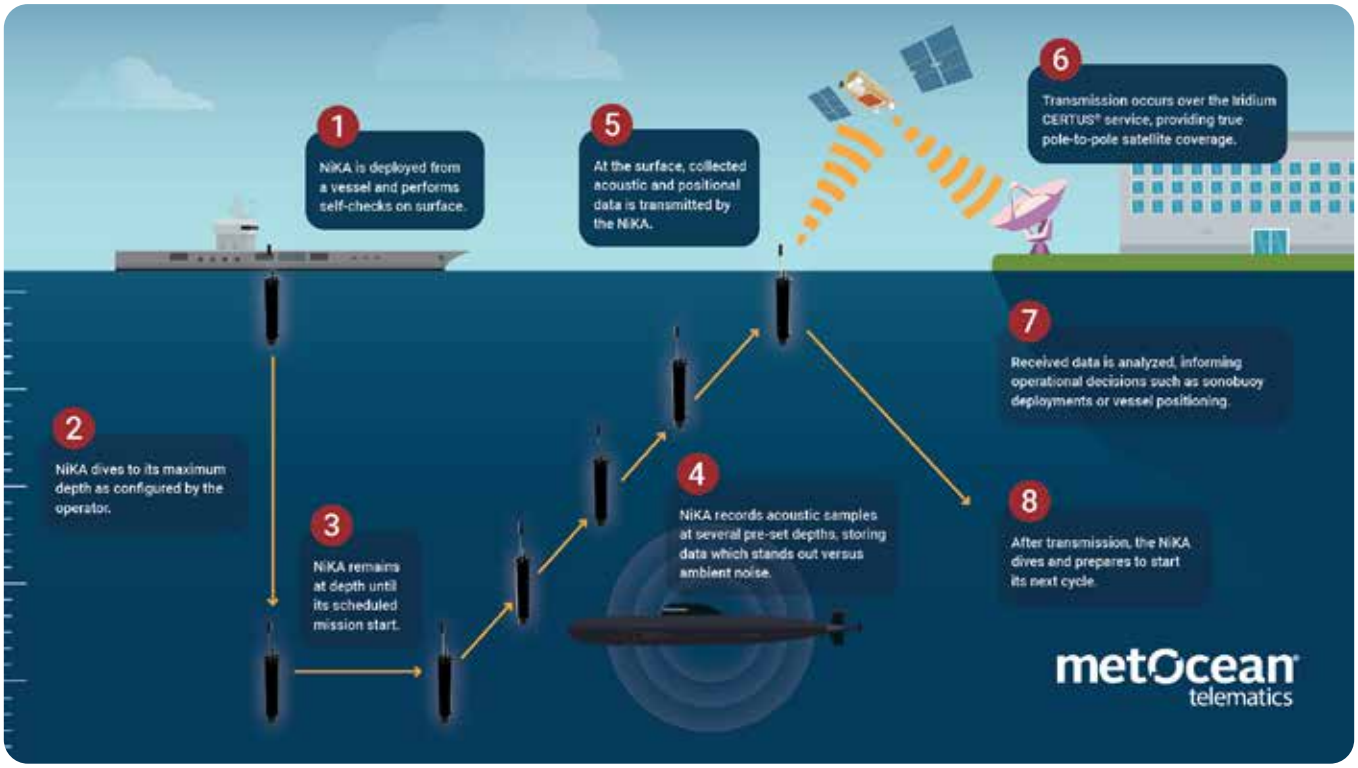
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OPERATIONAL FEATURES	
Maximum depth: 1000 m (3,281')	**Deployment:** Handles for slip-rope deployment
Highly configurable operational life, based on selected acoustic windows and required depths	**Activation Method:** Removable magnet
Battery: 40 x Saft LSH20 lithium battery	GPS recovery
24 month shelf life	**Encryption:** Secret - AES-256

MECHANICAL
Hull material: Hard anodized aluminum
Height: 1692 mm (66.6") with antenna, 1240 mm (48.8") without antenna
Mass: 25 kg (55 lb)
Hydraulic buoyancy control / Fully sanitized design, no visible branding

CONNECTIVITY	
Iridium Certus 100 satellite connectivity – up to 88 Kbps	First Defence product using Iridium 9770 midband transceiver

SENSORS			
Hydrophone	Custom hydrophone element developed in Nova Scotia	**Sampling rate:** 6 KHz	
	Frequency band: 10 Hz – 2.4 KHz	**Detection radius:** 9.26 km (5 NM)	
Temperature Sensor	Ultra low power depth sensor - Canadian made	**Pressure Sensor**	Ultra low power depth sensor - Canadian made
	+/- 0.002 °C (0.0036 °F) over -5 °C (23 °F) to 35 °C (95 °F)		2000 m (6,561.7') depth rating
	Resolution 0.00005 °C (0.00009 °F)		+/- 1 m (3.3') accuracy
			Resolution 20 mm (0.79")



Empowering Data Connectivity, Everywhere.

metOcean telematics

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